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# DUALITY IN I IAL

Italy COUNTRY

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SUBJECT

The Ernesto Breda Engineering Firm,

Via Bordoni, Lilan, Italy

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# Background History

- The firm was founded in 1886, by Ernesto Breda, primarily for the production of railway locomotives.
- It began its expansion with the nationalization of the Italian railways, in 1906. Shortly prior to this, the firm, anticipating heavy orders from the Government for locomotives and rolling stock, moved part of its premises from Milan to Sosto San Giovannia
- At the outbreak of World War I, to meet wartime requirements, the Seste San Giovanni works were converted into a giant arsenal for the production of guns, howitzers, mortars, and naval torpedoes. A hydroelectric plant was at the same time installed in the Valle Del Lys, at the foot of Mount Rosa.
- A naval dockyard was built in Venice, and construction of airplane engines started up in the firm's factories at Milan, and Sesto San Giovanni.
- With the end of World War I, and the death of Ing. Breda, the latter's success sors became active supporters and promoters of the Fascist regime. Toward the end of 1924, they had succeeded in directing the firm's production toward the manufacture of small arms, for which purpose two new factories were created in Rome and at Brescia.
- During World War II, the Breda firm limited its production to the manufacture of arms and ammunition (naval, military, and air), military tractors, and railway material.
- In 1945, as a result of clauses in the Peace Treaty, coupled with Italy's fire nancial plight, all military production work was suspended.

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- 8. The firm now produces chiefly railway rolling stock and equipment. Aircraft and neval construction work has been turned over to peacetime needs-
- S. Pactory equapment has remained basically the same since the war. In the Breda factories at Seste Sen Giovanni, Brescia, and Rome, as well as in the plants controlled by the Breda firm at Naples, and Venice, the cutout power is more than 70,000 H.P. The total number of machine tools exceeds 12,000.

## Seste San Giovanni Factory.

- 10. The factory covers an area of more than 2.300.000 square meters and employs over 15,000 workers. It is divided into five sections.
  - 4. Section I. locomotives, electro and general machanics. The workshops cover an area of 250,000 square meters.
    - (1) Production, Electric train engine parts and steam diven accompanies of all types. Electric locomotives and discal railrand cars (small, medium, and large). Complete hydromelectric planes. Electrical transformer cabins. Transformer substations. Converter sets (gruppi convertitivi). These railrand curs with internal combustion engines. Facilities required for various industries, including comen production, chemical products, mines, distillation, mineval oil refinery, paper factories, steam boilers for fixed installations, steel structural work, and road compressors. Tartime production included: 4-wheel army trailers, machine gun carriages, and elecdynamic gun turrets for aircraft machine guns.
    - (2) Equipment, 5,000 machine tools; 50 cranes (from 1 to 60 tons in weight); 4 carriage trolleys (carrelli trasbordatori); and 1 insulation test transformer (1 trasformatore prove iselamente), with 600,000 volt tension capacity. Testing the for diesel engine brakes, autogenous electrical, galaxance plastic welding equipment. Light alloys and special brance foundry section for thermic treatment of secolo
  - b. Section II, vehicles. The workshops cover an area of 120,000 quere motors.
    - (1) Production. Translling coaches; diesel railroad care: electric transl electric trans; trolley busses; and metal structural work (carpenterie metalliche).
    - (2) Equipment, feveral kilometers of railway track; trestle cranes with sinding bridges (grue a cavalette a ponte scorrevole); 4 carriage trolleys (carrelli di trasbordo); forging tools for processing metal parts of vehicles; upholstery and wood work section; machinery for plate and tubing work; and electrical and autogenous welding shops

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- Section III, forge shops and steel foundries. These cover an area of 80 square meters.
  - (1) Production. locomotive wheels; wheels for tram and railway coaches; castings (for arms and machinery); and bars (longotti).
  - (2) Equipment. 25 compressed air hammers; 7 vertical presses (400 to 2,000 tons); 5 horizontal presses (60 to 200 tons); forging slops (among the largest of their kind in Europe); michine tool shop for processing of castings; sandblisting and galvanization plant; and compressed air production plant operating 6 compressors.
- d. Section IV, iron metallurgy. This section occupies an area of 300,000 square meters.
  - (1) Production. In addition to 100,000 tons a year of processed steel, this includes: rails splice bars (gamasco); grids (piastre); bearing plates for fixing rails (piastrine per fissegio rotaie); pulley wheels (guide) for personnel and reight lifts; tire rims for trucks; and special steels for aircraft.
  - (2) Equipment. 3 Martin Siemms self-loading furnaces;
    5 Heroult electrical furnices; 2 induction furnaces;
    15 (100 to 2,000 kg) forg; hammers; 15 bridge and trestle cranes (grae a peate e a cavalletto); loading oranes for furnaces up to 600 tons; and electro-magnets.
- o. Section V, aircraft. This section occupies an area of 200,000 square meters (50,000 covered in) with an airfield of 2,00 by 700 meters.
  - (1) Production. Prototypes of civilian and tourist aircraft, including the BZ 308 which has the following specifications:

(a)	Wirz span,	42,100	neters
(p)	Leigth,	33,520	meters
(c)	Weight,	26,000	ke.
(d)	luximum carriage weight,	48,000	kg,
(e)	Take-off power, laximum speed,	10,000	H.?.
(£)	laximum speed,		km, per hr.
(g)	ruising speed,	420	km, per hro
(h)	Maximum operating range,		• -
	(autonomia massima)	6,000	km,
(i) (j	Ceiling,	7,400	me wrs
(j	Petrol and oil,	12,800	kgi .

Three such aircraft are on order (2 from Holland, and one from Poland).

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## Brascia Factory.

11. This factory, which formerly produced arms, has been converted to the manufacture of agricultural machinery. Parts are built on the premises or supplied by the Sesto San Giovanni factorius. Agricultural machinery is produced for the home market as well as for export to the Middle East and the Latin countries. The factory employs at present 1,400 workers and is equipped with a small auxiliary electrical plant.

# Rome Factory.

12. This factory, which originally was constructed for arms production switched over, in 1946, to the manufacture of special textile machinery used in the processing of silk and wool. Parts are built on the premises or obtained direct from Sesto San Giovumi. The factory employs about 800 workers. Output goes to the home market, to certain European countries, and to America.

## Naval Shipyard at Mestre.

- 15. The dockyard is owned by the Venice Shipyard Company (Cantieri Navali di Venezia) which is affiliated to Breda. It occupies an area of 44,000 square meters at Mestre, and vmploys 1,500 workers. Its installations did not suffer any serious war denage.
  - Equipment. Workshop engineering equipment capable of processing 25 tons of sheet metal per day; calenders (calandre), 11 meters long with a 33 mm thickness; hydraulic clamps (glangiatrici idrauliche); two presses (300 and .00 tons); flaning machines (bordatrici); swivel drills (trapmatrici girevoli); diesel oil furnaces; 3 longitudinal slips measuring up to 150 meters; several transversal slips measuring up to 60 meters; and swivel lever cranes (grue a braccio girevole).
  - b. Froduction. Two 5,000 ton vessels are being built on order from Turkey. Repairs to one Liberty ship are in process. The dock-yard can also undertake construction of metal structural work, (carpenteria metallicha); bridges, intments (tottoia); tanks, hangars, and so forth.

#### Maples Factory.

- 14. This was amed by Breda, until 1945, when it passed into the hands of an affiliated concern, Industrie Meccanicha haridionali. The Breda firm controls most of the shares. The factory, which during the war was exclusively concerned with aircraft production, has suffered severe damage. In 1945, it switched over to production of railway material and is not engaged in constructing and repairing railway coaches.
- 15. The factory employs 2,000 workers. It is equipped with a small plant which supplies one-quarter of its electrical energy requirements. The remainder are med from the normal currents

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# Ernosto Breda Technical and Scientific Institute.

- 16. This is located in the Sesto San Giovanni factory and is divided into two sections:
  - a. Section I. General testing and inspection of all material by the firm; and
  - b. Section II. Technical and scientific research work,
- 17. This Institute is equipped with furnaces for experimental smelting work and thermic treatment with high frequency induction furnaces (formi al induzione ad alta frequenza). It has a special workshop for preparing tests.

